

27-OCT-09
16:34:11

GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

36.00' CURB-TO-CURB; 5 BEAMS; 125.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
39.250	3.625	3.625	19.625	5	63.737	3	1	8.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
19.625				

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	79.671
2	0.7500	47.803
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	79.671
2	1.5000	95.605
3	1.2500	79.671
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	79.671
2	1.5000	95.605
3	1.7500	111.540
4	1.2500	79.671
5	0.2500	15.934

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.0000	0.000
3	0.0000	0.000
4	0.7500	47.803
5	1.2500	79.671

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LIVE LOAD CASE # 5 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	1.2500	79.671
4	1.5000	95.605
5	1.2500	79.671

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.2500	15.934
2	1.2500	79.671
3	1.7500	111.540
4	1.5000	95.605
5	1.2500	79.671

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3750	23.901
3	1.2500	79.671
4	0.3750	23.901
5	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	39.836
2	1.6250	103.573
3	1.3750	87.638
4	0.3750	23.901
5	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	0.6250	39.836		
2	1.6250	103.573		
3	1.5000	95.605		
4	1.6250	103.573		
5	0.6250	39.836		

LIVE LOAD CASE # 10 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	0.0000	0.000		
2	1.2500	79.671		
3	1.5000	95.605		
4	1.2500	79.671		
5	0.0000	0.000		

LIVE LOAD CASE # 11 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD		
1	1.2500	79.671		
2	0.7500	47.803		
3	0.0000	0.000		
4	0.7500	47.803		
5	1.2500	79.671		

LIVE LOAD CASE # 12 3 TRUCKS

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I	I	I	I	I
BEAM	WHEEL FRACTION	P-LOAD		
1	1.2500	79.671		
2	1.5000	95.605		
3	1.2500	79.671		
4	0.7500	47.803		
5	1.2500	79.671		

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 PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
 SUMMARY OF THE LIVE LOAD CASE PROGRAM
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PROB. NO. LL01

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39.250	3.625	3.625	19.625	5	63.737	3	1	8.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
19.625																			
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	79.671	47.803	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	79.671	95.605	79.671	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

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LL CASE	3	3	79.671	95.605	111.540	79.671	15.934	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	47.803	79.671	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	79.671	95.605	79.671	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	15.934	79.671	111.540	95.605	79.671	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	23.901	79.671	23.901	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	39.836	103.573	87.638	23.901	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	39.836	103.573	95.605	103.573	39.836	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	79.671	95.605	79.671	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	79.671	47.803	0.000	47.803	79.671	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	79.671	95.605	79.671	47.803	79.671	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	79671	47802	0	0	0	0	0
61LL	2	2	79671	95605	0	79671	0	0	0
61LL	3	3	79671	95605	0111539	0	79671	15934	0
61LL	4	1	0	0	0	0	47802	79671	0
61LL	5	2	0	0	0	79671	0	95605	79671
61LL	6	3	15934	79671	0111539	0	95605	79671	0
61LL	7	1	0	23901	0	79671	0	23901	0
61LL	8	2	39835103572	0	87638	0	23901	0	0
61LL	9	3	39835103572	0	95605	0103572	39835	0	0
61LL10	2	0	79671	0	95605	0	79671	0	0
61LL11	2	79671	47802	0	0	0	47802	79671	0
61LL12	3	79671	95605	0	79671	0	47802	79671	0